

# **California Marine Life Protection Act Initiative**

## **Central Coast MPA Package 2R (March 15, 2006)**

**Maps: North and South Central Coast Study Region**

**Staff Summary of Area and Habitats**

**Summary Matrix of Individual MPAs**

***Updated May 2, 2006***

# Package 2R (3/15/06 version): North Central Coast Study Region

Marine Life Protection Act Initiative



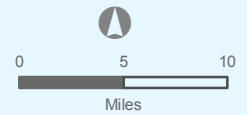
Central Coast Study Region

SMCA

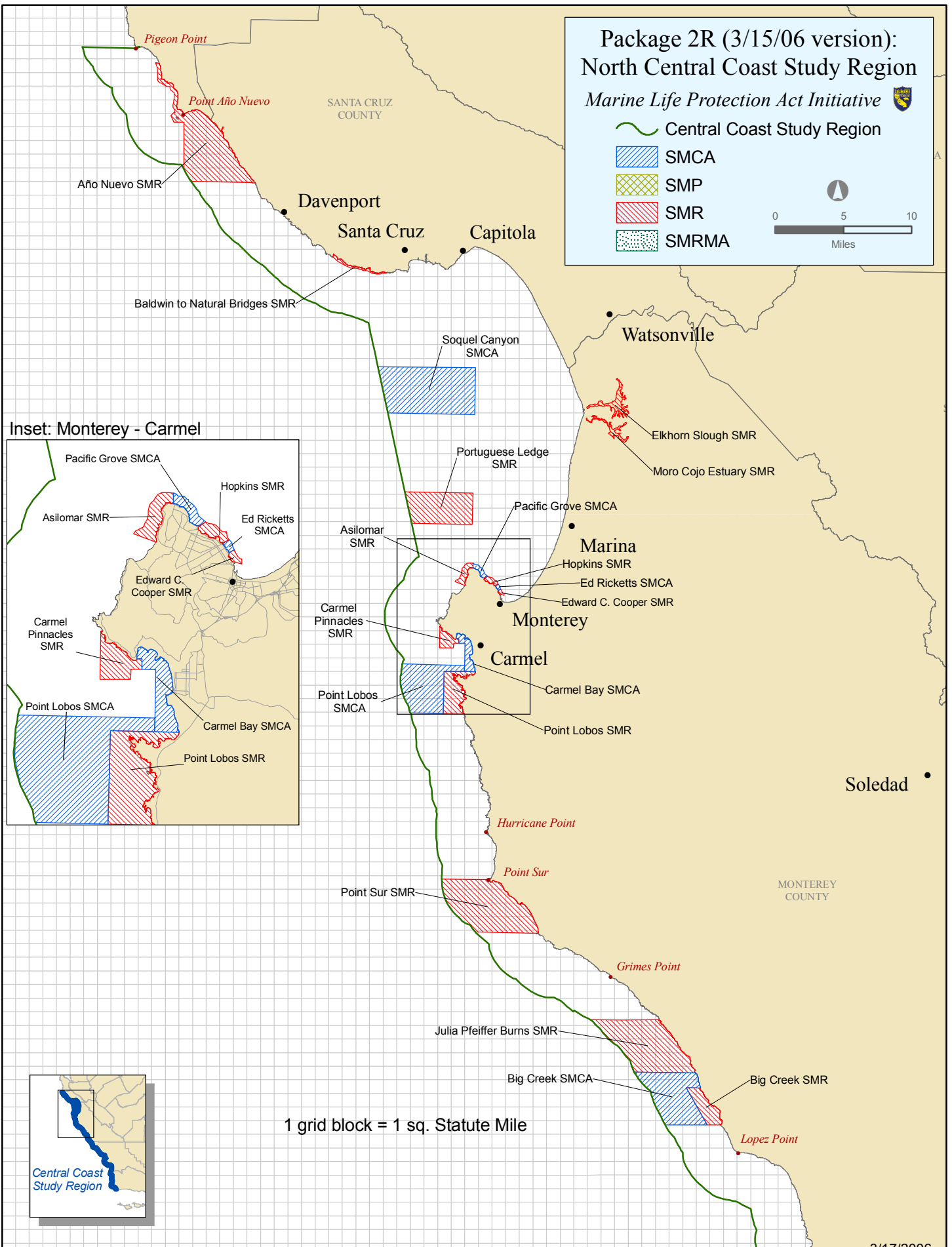
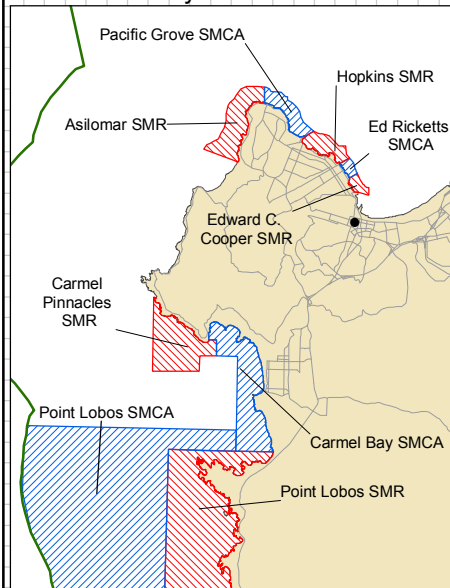
SMP

SMR

SMRMA



## Inset: Monterey - Carmel



1 grid block = 1 sq. Statute Mile



3/17/2006

SMCA = State Marine Conservation Area      SMP = State Marine Park  
SMR = State Marine Reserve      SMRMA = State Marine Recreational Management Area

# Package 2R (3/15/06 version): South Central Coast Study Region

Marine Life Protection Act Initiative



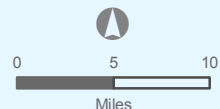
Central Coast Study Region

SMCA

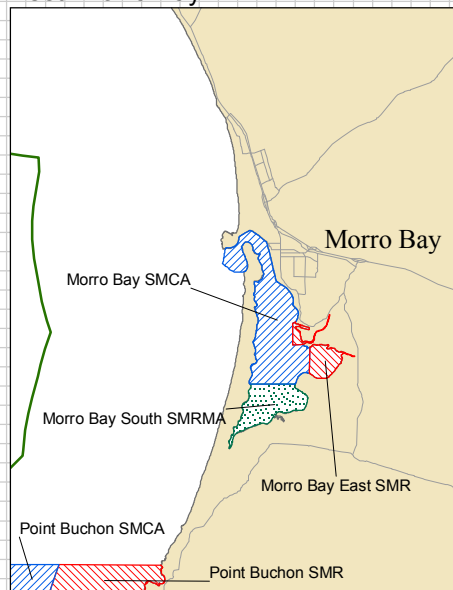
SMP

SMR

SMRMA



Inset: Morro Bay



1 grid block = 1 sq. Statute Mile



3/17/2006

SMCA = State Marine Conservation Area      SMP = State Marine Park  
SMR = State Marine Reserve      SMRMA = State Marine Recreational Management Area

**California Marine Life Protection Act Initiative**  
**Central Coast Project**  
**Staff Summary of Area and Habitats in Package 2R (March 15, 2006 version)**  
*Revised April 20, 2006*

**Overall Summary for Package 2R (3/15/06 version)**

Type of MPA <sup>1</sup>	# Proposed	Area (mi <sup>2</sup> )	% of Study Region
<b>State Marine Conservation Area (SMCA)</b>	8	63.93 mi <sup>2</sup>	5.56%
<b>State Marine Park (SMP)</b>	1	9.84 mi <sup>2</sup>	0.86%
<b>State Marine Reserve (SMR)<sup>2</sup></b>	21	147.68 mi <sup>2</sup>	12.84%
<b>All MPAs combined</b>	30	221.45 mi <sup>2</sup>	19.26%

<sup>1</sup> Note: These are proposed MPA designations, NOT levels of protection assigned by the MLPA Master Plan Science Advisory Team.

<sup>2</sup> The proposed Morro Bay South State Marine Recreational Management Area was included with the SMRs for the analysis.

**Individual MPAs in Package 2R (3/15/06 version)**

MPA Name <sup>A</sup>	Size (mi <sup>2</sup> )	Along-shore Span (mi) <sup>B</sup>	Depth Range (ft)
<b>Año Nuevo SMR (2<sup>nd</sup> analysis as **)</b>	18.99 mi <sup>2</sup>	11.5 mi	0-209 ft
<b>Baldwin to Natural Bridges SMR</b>	0.59 mi <sup>2</sup>	4.1 mi	3-21 ft
<b>Elkhorn Slough SMR</b>	1.56 mi <sup>2</sup>	7.0 mi	0-10 ft
<b>Morro Cojo Estuary SMR</b>	0.74 mi <sup>2</sup>	7.6 mi	0-10 ft
<b>Soquel Canyon SMCA (***)</b>	23.41 mi <sup>2</sup>	7.8 mi	247-2113 ft
<b>Portuguese Ledge SMR</b>	10.90 mi <sup>2</sup>	5.4 mi	302-4838 ft
<b>Edward C. Cooper SMR</b>	0.11 mi <sup>2</sup>	0.6 mi	4-54 ft
<b>Ed Ricketts SMCA (**)</b>	0.09 mi <sup>2</sup>	0.4 mi	3-56 ft
<b>Hopkins SMR</b>	0.35 mi <sup>2</sup>	1.0 mi	3-71 ft
<b>Pacific Grove SMCA (*)</b>	0.41 mi <sup>2</sup>	1.2 mi	3-59 ft
<b>Asilomar SMR</b>	0.85 mi <sup>2</sup>	1.5 mi	0-63 ft
<b>Carmel Pinnacles SMR</b>	1.25 mi <sup>2</sup>	1.8 mi	3-223 ft
<b>Carmel Bay SMCA (*)</b>	1.71 mi <sup>2</sup>	3.1 mi	3-471 ft
<b>Point Lobos SMR</b>	4.36 mi <sup>2</sup>	4.8 mi	0-320 ft
<b>Point Lobos SMCA (**)</b>	11.28 mi <sup>2</sup>	5.2 mi	227-2111 ft
<b>Point Sur SMR</b>	19.48 mi <sup>2</sup>	5.4 mi	3-624 ft
<b>Julia Pfeiffer Burns SMR</b>	18.03 mi <sup>2</sup>	4.8 mi	3-2227 ft
<b>Big Creek SMR</b>	3.24 mi <sup>2</sup>	3.1 mi	0-314 ft
<b>Big Creek SMCA (**)</b>	12.97 mi <sup>2</sup>	4.3 mi	3-2393 ft
<b>Piedras Blancas SMR</b>	22.09 mi <sup>2</sup>	7.0 mi	0-337 ft
<b>Cambria SMP (^)</b>	9.84 mi <sup>2</sup>	5.3 mi	0-150 ft
<b>Ken Norris SMR (2<sup>nd</sup> analysis as *)</b>	5.50 mi <sup>2</sup>	3.6 mi	0-187 ft
<b>Estero Bluff SMR</b>	0.14 mi <sup>2</sup>	1.4 mi	0-10 ft
<b>Morro Bay SMCA (*)</b>	2.10 mi <sup>2</sup>	7.0 mi	0-22 ft
<b>Morro Bay East SMR</b>	0.40 mi <sup>2</sup>	2.4 mi	0-10 ft
<b>Morro Bay South State Marine Recreational Management Area (***)</b>	0.79 mi <sup>2</sup>	3.4 mi	0-10 ft
<b>Point Buchon SMR</b>	8.38 mi <sup>2</sup>	4.6 mi	0-217 ft

**Individual MPAs in Package 2R (3/15/06 version) - continued**

MPA Name <sup>A</sup>	Size (mi <sup>2</sup> )	Along-shore Span (mi) <sup>B</sup>	Depth Range (ft)
<b>Point Buchon SMCA (***)</b>	11.96 mi <sup>2</sup>	4.6 mi	167-377 ft
<b>Purisma Point SMR</b>	19.27 mi <sup>2</sup>	5.0 mi	0-190 ft
<b>Point Arguello SMR</b>	10.66 mi <sup>2</sup>	8.2 mi	0-189 ft

A. Symbols following proposed MPA name indicate level of protection as determined by the MLPA Master Plan Science Advisory Team (SAT). (\*\*\*) indicates SMCA High, (\*\*) indicates SMCA Moderate, (\*) indicates SMCA Low, and (^) indicates SMP Low. Level of protection was used in the SAT evaluation.

B. Alongshore span measured as direct line from one end of the MPA to the other.

**Habitat Representation in Package 2R (3/15/06 version)**

Habitat	Percentage of Mapped Habitat in Proposed MPA Designations in the Study Region <sup>1</sup>			
	SMCA	SMP	SMR	Total MPAs
<b>Intertidal</b>				
<b>Sandy or gravel beaches</b>	2.39%	2.34%	23.46%	28.19%
<b>Rocky intertidal and cliff</b>	2.68%	1.42%	33.94%	38.05%
<b>Coastal marsh</b>	4.05%	1.29%	57.16%	62.50%
<b>Tidal flats</b>	18.83%	0.64%	64.24%	83.70%
<b>Seagrass beds (0-30m): Surfgrass</b>	3.90%	2.52%	35.27%	41.68%
<b>Seagrass beds (0-30m): Eelgrass</b>	67.10%	0.00%	32.62%	99.71%
<b>Estuary</b>	21.36%	0.10%	36.72%	58.19%
<b>Soft bottom</b>				
<b>0-30 meters</b>	1.17%	1.79%	13.34%	16.30%
<b>30-100 meters</b>	4.38%	0.67%	10.96%	16.00%
<b>100-200 meters</b>	14.37%	0.00%	8.97%	23.34%
<b>&gt;200 meters</b>	15.46%	0.00%	11.20%	26.66%
<b>Hard bottom</b>				
<b>0-30 meters</b>	1.54%	1.71%	28.02%	31.26%
<b>30-100 meters</b>	9.58%	0.02%	19.41%	29.01%
<b>100-200m</b>	26.37%	0.00%	11.48%	37.85%
<b>&gt;200 meters</b>	12.87%	0.00%	9.47%	22.34%
<b>Kelp forest</b>				
<b>Average kelp ('89, '99, '02, '03)</b>	4.83%	4.94%	30.60%	40.36%
<b>Persistent kelp</b>	7.55%	9.75%	29.58%	46.88%
<b>Submarine canyon</b>				
<b>0-30 meters</b>	35.40%	0.00%	1.77%	37.17%
<b>30-100 meters</b>	8.82%	0.00%	4.07%	12.89%
<b>100-200 meters</b>	17.00%	0.00%	3.80%	20.79%
<b>&gt;200 meters</b>	14.12%	0.00%	11.50%	25.62%

<sup>1</sup>Note: These are proposed MPA designations, NOT levels of protection assigned by the MLPA Master Plan Science Advisory Team. The proposed Morro Bay South SMRMA was included with the SMRs for the analysis.

**California Marine Life Protection Act Initiative**  
**Summary Matrix of MPAs, Goals and Objectives, and**  
**Species Likely to Benefit in Package 2R (March 15, 2006 version)**  
*Revised May 2, 2006*

MPA Name	Regulations	Regional Goals/Objectives and Design Criteria	MPA-Specific Objectives	Species Likely to Benefit
Año Nuevo State Marine Reserve	<p>Take of all living marine resources is prohibited.</p> <p>Intertidal protection is intended to follow line ¼ line from shore and around Año Nuevo Island. We would accept alternative boundary conventions that ease enforceability and accomplish this goal.</p> <p>Note: Site is proposed as SMR however an existing kelp bed lease may require a phasing in of this level of protection after lease has expired and can be redrawn. If necessary, we suggest this MPA be established as an SMCA allowing only kelp harvesting under the existing lease in any interim period.</p>	<p>Goal 1 – Obj. 1, 2, 3, 4, 5</p> <p>Goal 2 – Obj. 1, 2</p> <p>Goal 3 – Obj. 1, 2</p> <p>Goal 4 – Obj. 1, 2</p> <p>Goal 5 – Obj. 1, 3</p> <p>Goal 6</p> <p>Design</p> <p>Considerations: 1, 3, 4, 5, 6, 7, 8, 9</p>	<p>Goal 1, Objective 1: Protect area of high species diversity characteristic of the area of the Central Coast Study Region north of Monterey Bay and maintain species diversity and abundance as demonstrated by monitoring appropriate indicator species TBD by SAT with focus on NFMP species.</p> <p>Goal 1, Objective 2: Protect diverse intertidal habitats including wave cut rocky platforms, sand and gravel beaches and offshore island, rocky reef (0-30 m, 30-100m), soft bottom (0-30m, 30-100m).</p> <p>Goal 1, Objective 3: Protect natural size and age structure and genetic diversity of populations of nearshore rockfish species and invertebrates including appropriate indicator species TBD by SAT.</p> <p>Goal 1, Objective 4: Protect natural trophic structure and food web including forage base (including crabs, squid and other Coastal Pelagic Species) for listed seabirds and marine mammals as well as fish.</p> <p>Goal 1, Objective 5: Protect range of ecosystem functions associated with lee of headland in productive upwelling zone.</p> <p>Goal 2, Objective. 1: Protect important forage area for nearby breeding colonies of listed seabirds and marine mammals. Reduce disturbance to breeding colonies of listed seabirds and marine mammal rookeries from activities associated with fishing vessels (lights, noise, etc). Note ¼ mile buffer has been identified by biologists as the bare minimum that may provide some benefit to the animals.</p> <p>Goal 2, Objective 2: Protect larval source and enhance reproductive capacity of intertidal invertebrate species such as Dungeness crabs, limpets, mussels, sea stars, turban snails; fish species including nearshore rockfish and halibut.</p> <p>Goal 3, Objective 1: Site MPA adjacent to State Park with high number of annual visitors that has traditionally served as important marine education site through visitor center and docent program. Note: California</p>	<p>Ashy storm petrel, Brandt's Cormorant, Brown pelican, Cassin's auklet, Marbled Murrelet, Pelagic cormorant, Pigeon guillemot, Rhinoceros auklet, Western gull.</p> <p>Southern sea otter, Steller's sea lion, harbor seal.</p> <p>Lingcod, black rockfish, black-and-yellow rockfish, blue rockfish, brown rockfish, cabezon, China rockfish, copper rockfish, grass rockfish, gopher rockfish, olive rockfish, kelp greenling, kelp rockfish, monkeyface prickleback, canary, bocaccio, widow, yellowtail. Surfperches, Pacific sand dab, petrale sole, California halibut.</p>

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

MPA Name	Regulations	Regional Goals/Objectives and Design Criteria	MPA-Specific Objectives	Species Likely to Benefit
			<p>Department of Parks and Recreation has recommended the Año Nuevo area as a Marine Reserve.</p> <p>Goal 3, Objective 2: Replicate Baldwin Creek to Natural Bridges Intertidal SMR habitats.</p> <p>Goal 4, Objective 1: Include estuary at Waddell Creek in SMR.</p> <p>Goal 4, Objective 2: Protect sandy and gravel beaches, hard and soft bottom (0-30 m, 30-100m) in SMR.</p> <p>Goal 5, Objective 1: Minimize socio-economic impacts by maintaining area around Año Nuevo (preferred for conservation values) open to fishing since this area was identified as being of top importance to Recreational Fishermen and area north of Año was identified as important to squid, recreational fishing and crabbers. This site does have some impact on the squid fishery. However, the boundaries of this SMR were drawn to minimize impacts to the squid fishery (thus the triangle shape of this MPA) and data shows important squid grounds in nearby areas (lee of Franklin Point and between City of Santa Cruz and Davenport SMR) that would remain open to fishing).</p> <p>Goal 5, Objective 3: Site MPA that meets MPF Scientific Guidelines regarding preferred size (greater than 18 sq miles).</p> <p>Goal 6: This site is designed to contribute to an effective network.</p> <p>This site is designed to fulfill the criteria for MPAs contained in the NFMP.</p>	<p>Dungeness crab, limpets, little neck clams, moon snails, mussels, rock scallop, sea hares, sea stars, turban snails, worms.</p> <p>Market squid.</p>
Baldwin to Natural Bridges State Marine Reserve	<p>Take of all living marine resources is prohibited.</p> <p>We intend this SMR to prohibit intertidal collecting and shore fishing but not to</p>	<p>Goal 1 – Obj. 1, 2, 3</p> <p>Goal 2 – Obj. 2</p> <p>Goal 3 – Obj. 1, 2, 3</p> <p>Goal 4 – Obj. 2</p> <p>Goal 5 – Obj. 1</p> <p>Design</p>	<p>Goal 1, Objective 1: Protect high diversity intertidal habitat and range of species characteristic of intertidal regions north of Monterey Bay.</p> <p>Goal 1, Objective 2: Protect areas with salt marsh, sand and gravel beaches, rocky intertidal, wave cut platforms and exposed rocky cliffs in close proximity to each other.</p> <p>Goal 1, Objective 3: Protect natural size and age structure and genetic</p>	<p>As intertidal SMR limited to 20-foot depth, species most likely to benefit are algae and invertebrates.</p> <p>Giant kelp and</p>

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MPA Name	Regulations	Regional Goals/Objectives and Design Criteria	MPA-Specific Objectives	Species Likely to Benefit
	impact skiff fishing (given its shallow depth range). We will accept alternative boundary conventions that accomplish these goals and simplify enforcement.	Considerations: 1, 3, 4, 5, 6, 7, 8, 9	<p>diversity of populations of intertidal invertebrates including appropriate indicator species TBD by SAT.</p> <p>Goal 2, Objective 2: Protect larval source and enhance reproductive capacity of intertidal invertebrate species such as limpets, mussels, sea stars, and turban snails.</p> <p>Goal 3, Objective 1: Enhance educational/research use of accessible intertidal area by siting SMR adjacent to two state parks and University of California, Santa Cruz. Natural Bridges State Beach receives over 900,000 visitors a year. Regional Profile at 55. Note: California Department of Parks and Recreation has recommended this area as a Marine Park.</p> <p>Goal 3, Objective 2: Replicate intertidal habitat found in SMRs at Año Nuevo and in open/unprotected area at Sand Hill Bluff (where existing monitoring site exists). Existing PISCO monitoring sites located within the SMR.</p> <p>Goal 3, Objective 3: high school students have historically monitored Site as part of LiMPETS program.</p> <p>Goal 4, Objective 2: Protect and replicate intertidal sand and gravel beach, wave cut rocky platforms, exposed rocky cliffs and hard bottom habitat in very nearshore area of 0-30 m depth range.</p> <p>Goal 5, Objective 1: SMR designed specifically to avoid socio-economic impacts. As intertidal SMR, site will not affect fishing activities. Preferred option of siting a SMR that extends to greater depth range (as identified in the IDC proposal) was not pursued in an effort to reduce socio-economic impacts by avoiding siting SMRs adjacent to Santa Cruz harbor.</p>	<p>other intertidal algal species.</p> <p>Limpets, little neck clams, moon snails, mussels, rock scallop, sea hares, sea stars, turban snails, worms.</p>
Elkhorn Slough State Marine Reserve	Take of all living marine resources is prohibited.	<p>Goal 1 – Obj. 1, 2, 3, 4</p> <p>Goal 2 – Obj. 1, 2</p> <p>Goal 3 – Obj. 1, 2</p> <p>Goal 4 – Obj. 1</p> <p>Goal 5 – Obj. 1</p>	<p>Goal 1, Objective 1: Protect estuarine area with high bird diversity.</p> <p>Goal 1, Objective 2: Protect area with diversity of estuarine habitats – open channel, mud flats, and eelgrass beds.</p> <p>Goal 1, Objective 3: Protect natural age, size structure, and genetic</p>	Crabs, ghost shrimp, moon snails, mud shrimp, mussels, sea hares, worms, gaper clams.

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		Design Considerations: 1, 2, 3, 5, 6, 7, 8, 9	<p>diversity of fish and invertebrate species characteristic of large estuarine system – especially elasmobranches (nursery) and native gaper clams and fat innkeeper worms.</p> <p>Goal 1, Objective 4: Protect natural structure and food web of estuarine system including forage base (invertebrates) for sea otters, seabirds, etc.</p> <p>Goal 2, Objective 1: Help protect listed seabirds and threatened southern sea otter by protecting invertebrate prey.</p> <p>Goal 2, Objective 2: Enhance reproductive capacity of both invertebrate and fish species by prohibiting take in important nursery area.</p> <p>Goal 3, Objective 1: Expand existing SMR in area adjacent to educational &amp; interpretive facilities of the NERR and near Moss Landing Marine Labs and MBARI.</p> <p>Goal 3, Objective 2: Protect and replicate representative estuarine habitat in Central Coast Study Area within SMR.</p> <p>Goal 4, Objective 1: Protect estuary in SMR.</p> <p>Goal 5, Objective 1: Site expands SMR in area that has recently received little fishing effort, where some fish species are contaminated by pollutants and therefore possibly not suitable for consumption, and where non-consumptive values likely to be enhanced by the SMR (kayaking and wildlife watching) are particularly high.</p>	<p>Eelgrass and other intertidal species.</p> <p>Brown Pelicans, Double-crested Cormorant, Least Tern, Caspian Terns, Grebes, Loons, Red-necked Phalaropes</p> <p>Harbor seal, southern sea otter.</p> <p>Bat ray, black surfperch, California halibut, English sole, leopard shark, pile surfperch, rainbow surfperch, shiner surfperch, starry flounder, surf smelt, top smelt, walleye surfperch, white surfperch.</p>
Moro Cojo SMR	Take of all living marine resources is prohibited.	Goal 4 – Obj. 1 Goal 5 – Obj. 1	<p>Goal 4, Objective 1: Protect estuary in SMR.</p> <p>Goal 5, Objective 1: SMR has no socio-economic impact since no consumptive activities occur in this area.</p>	<p>Snails.</p> <p>Eelgrass and other intertidal algal species.</p> <p>Surfperch.</p> <p>Brown Pelicans,</p>

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MPA Name	Regulations	Regional Goals/Objectives and Design Criteria	MPA-Specific Objectives	Species Likely to Benefit
				Least Tern, Grebes, Loons, Red-necked Phalarope.
Soquel Canyon State Marine Conservation Area	Take of all living marine resources is prohibited except: take of salmon and albacore.	Goal 1 – Obj. 1, 2, 3 Goal 2 – Obj. 1, 2, 3 Goal 3 – Obj. 1, 2 Goal 4 – Obj. 1, 2 Goal 5 – Obj. 1 Design Considerations: 1, 2, 3, 5, 6, 7, 9	Goal 1, Objective 1: Protect area with high species diversity associated with submarine canyon including deepwater fish species, foraging seabirds and feeding marine mammals. Area is within top 20 <sup>th</sup> percentile for fish and seabird density.  Goal 1, Objective 2: Help protect area of diverse habitat including hard and soft bottom (0-30m, 30-100m, 100-200m, >200m), and submarine canyon habitat over large range of depths (30-100m, 100-200m, >200m).  Goal 1, Objective 3: Help restore overfished groundfish species by maintaining large individuals of species such as bocaccio, canary and yelloweye rockfish in area that serves as natural refugia for these species.  Goal 2, Objective 1: Protect overfished rockfish species including bocaccio and canary rockfish as well as forage base for listed seabirds, whales and other marine mammals  Goal 2, Objective 2: Enhance reproductive capacity of benthic and deepwater species by prohibiting fishing for these species and limiting bycatch.  Goal 2, Objective 3: Protect rockfish and most of benthic community and forage base utilized by birds and whales (small CPS) while allowing fishing for salmon and albacore.  Goal 3, Objective 1: Site MPA near MBARI and Moss Landing Marine Labs where remotely operated vehicles, future MARS cable and other research methods have already generated baseline data. The MARS cable will also provide a unique opportunity for a classroom curriculum based around real-time data received from the cable.	Dungeness crab, market squid, sea stars, gorgonians, corals, sponges. Spot prawns.  Gray whale, harbor porpoise.  Aurora rockfish, bank rockfish, Bocaccio, canary, yelloweye, cowcod, greenspotted, greenstriped, canary, widow, bank, chilipepper, flag, rosy, speckled, starry, yellowtail, and vermilion rockfish, widow rockfish, lingcod.  Sole (Dover, English, petrale, rex, sand, slender), surfperch (shiner and walleye). Pacific sand dabs. Leopard shark.  Common Murre,

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			<p>Goal 3, Objective 2: Provide (fished) replicate deepwater soft bottom, hard bottom and submarine canyon habitat (30-100, 100-200, &gt;200m) for Portuguese Ledge and possibly Big Creek SMR.</p> <p>Goal 4, Objective 1: Include head of Soquel Canyon in MPA.</p> <p>Goal 4, Objective 2: Protect and replicate deepwater habitats (soft and hard) and submarine canyon habitat across near full range of depths. Note: since this is not an SMR, it does not qualify as replicate representative habitat under F &amp; G Code Section 2857 (c) (2).</p> <p>Goal 5, Objective 1: Socio-economic impacts minimized by allowing salmon and albacore fishing.</p>	Northern Fulmar, Shearwaters.
Portuguese Ledge State Marine Reserve	Take of all living marine resources is prohibited.	<p>Goal 1 – Obj. 1, 2, 3, 4, 5</p> <p>Goal 2 – Obj. 1, 2</p> <p>Goal 3 – Obj. 1, 2</p> <p>Goal 4 – Obj. 2</p> <p>Goal 5 – Obj. 1</p> <p>Design Considerations: 1, 2, 3, 5, 6, 7, 9</p>	<p>Goal 1, Objective 1: Protect area with high species diversity associated with mid-depth and deepwater sandy and rocky bottom, as well as very deep hard rock walls of Monterey Submarine Canyon including deepwater fish species, foraging seabirds and feeding marine mammals. Area is within top 20<sup>th</sup> percentile for seabird density and diversity and top 20<sup>th</sup> percentile for fish density.</p> <p>Goal 1, Objective 2: Protect area of diverse habitat including hard and soft bottom (0-30m, 30-100m, 100-200m, &gt;200m), and deep-water submarine canyon habitat (&gt;200m). Note this SMR extends into depths of nearly 5000 feet, providing the only SMR in the study region that protects this very deepwater canyon habitat.</p> <p>Goal 1, Objective 3: Help restore natural age structure and size of depleted rockfish populations including indicator species (TBD by SAT).</p> <p>Goal 1, Objective 4: Protect trophic structure and food web associated with deeper water Monterey Bay and canyon communities (at depths from 88 meters to &gt;200 meters). SMR is designed specifically to protect forage base for fish, seabirds and marine mammals by protecting full range of species including Coastal Pelagic Species, crabs, etc.</p> <p>Goal 1, Objective 5: Protect ecosystem function and structure associated</p>	<p>Dungeness crab, market squid, sea stars, gorgonians, corals, sponges, spot prawns.</p> <p>Gray whale, harbor porpoise.</p> <p>Aurora rockfish, bank rockfish, Boccacio, canary, yelloweye, cowcod, greenspotted, greenstriped, canary, widow, bank, chilipepper, flag, rosy, speckled, starry, yellowtail, and vermilion rockfish, widow rockfish, lingcod.</p>

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			<p>with very deepwater habitats and communities including eliminating bycatch and impacts of discarded gear. Facilitate recovery of a variety of important rockfish species.</p> <p>Goal 2, Objective 1: Help protect and rebuild populations of overfished rockfish species including bocaccio, yelloweye and canary. Protect forage base for listed seabird and marine mammal species.</p> <p>Goal 2, Objective 2: Protect larval sources and enhance reproductive capacity of deepwater species including rockfish species.</p> <p>Goal 3, Objective 1: Site MPA near MBARI and Moss Landing Marine Labs where remotely operated vehicles and other research methods have already generated baseline data.</p> <p>Goal 3, Objective 2: Replicate deepwater habitats (sand, rock and deepwater canyon) found in the Soquel Hole SMCA and Point Lobos SMCA (fished) and in the Big Creek SMR.</p> <p>Goal 4, Objective 2: Protect in SMR (to meet MLPA Section 2857 (c)(2&amp;3), hard and soft bottom (0-30m, 30-100m, 100-200m, &gt;200m), and submarine canyon habitat (&gt;200m).</p> <p>Goal 5, Objective 1: Since recreational and non-trawl rockfish fishing is already prohibited in most of this area under the RCA and it is within the proposed EFH trawl closure area, this SMCA will result in little additional socio-economic impacts to the commercial or recreational rockfish fleets. See Regional Profile, Map 14.</p>	<p>Sole (Dover, English, petrale, rex, sand, slender), surfperch (shiner and walleye). Pacific sand dabs. Leopard shark.</p> <p>Common Murre, Rhinoceros auklet, Northern Fulmar, Shearwaters.</p>
Edward C. Cooper State Marine Reserve	<p>Take of all living marine resources is prohibited.</p> <p>We intend this SMR to follow the 60-foot depth line to include the kelp forest but not</p>	<p>Goal 1 - Obj. 1            Goal 2 – Obj. 2            Goal 3 – Obj. 1, 3, 4            Goal 5 – Obj. 1            Design            Considerations: 1, 2, 3, 4, 5, 6, 7, 8, 9</p>	<p>Goal 1, Objective 1: Protect area of known fish diversity where over 90 species have been identified through surveys.</p> <p>Goal 2, Objective 2: Protect large individuals of resident nearshore fish species in known nursery area.</p> <p>Goal 3, Objective 1: Enhance non-consumptive recreational dive experience at most heavily used dive site on the West Coast</p>	<p>Giant kelp and other intertidal algal species.</p> <p>Limpets, little neck clams, moon snails, mussels, rock scallop, sea hares,</p>

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

MPA Name	Regulations	Regional Goals/Objectives and Design Criteria	MPA-Specific Objectives	Species Likely to Benefit
	affect squid fishing grounds. Use of buoys may be appropriate at this location. We will accept alternative boundary conventions to improve enforceability consistent with the goal of this MPA.		<p>(approximately 65,000 diver days per year) and improve safety at most popular training dive site for open water SCUBA certification in the United States by eliminating hooking incidents associated with angling from Breakwater. Regional Profile, 85 &amp; 89. Enhance research and study opportunities by increasing protection in area adjacent to Hopkins Marine Station.</p> <p>Goal 3, Objective 3: Promote opportunity for use of volunteer divers in research and monitoring projects by siting MPA in area most heavily used by divers where REEF volunteer monitoring already takes place.</p> <p>Goal 3, Objective 4: Protect and enhance recreational experience for non-consumptive divers by helping to encourage natural size and age structure of resident species by eliminating take.</p> <p>Goal 5, Objective 1: Minimize socio-economic impacts by limiting SMR to 60 foot depth range to allow continued consumptive use in waters deeper than 60 feet while optimizing socio-economic benefits by enhancing top non-consumptive dive site through improved protection and safety. Shale bed area specifically left outside of MPA protection to provide access for skiff and CPFV fleet.</p>	<p>sea stars, turban snails, worms.</p> <p>May provide some benefit to resident nearshore fish species and those with limited movement patterns such as:  Lingcod, black rockfish, black-and-yellow rockfish, blue rockfish, brown rockfish, cabezon, copper rockfish, grass rockfish, gopher rockfish, olive rockfish, kelp greenling, kelp rockfish, monkeyface prickleback, California halibut</p> <p>Harbor seal, sea otter.</p>
Ed Ricketts State Marine Conservation Area	Allows hand take of kelp from November through February only. All other take prohibited.	<p>Goal 1 – 1, 2, 3, 4, 5</p> <p>Goal 2 – 1, 2, 3</p> <p>Goal 3 – 1, 2, 4</p> <p>Goal 4 – 2</p> <p>Goal 5 – 1, 3</p> <p>Design</p> <p>Considerations: 1, 2, 3, 4, 5, 7, 8, 9</p>	<ol style="list-style-type: none"> <li>1. High value rocky subtidal habitat (G1-3)</li> <li>2. Provide protection to rich diversity of invertebrates and fish species. (G1-1)</li> <li>3. Allows seasonal hand harvest of kelp to accommodate local mariculture operations (DC1) (G2-3) (G5-1)</li> <li>4. Protect sea otter and coastal seabird</li> <li>5. Enhances recreational non-consumptive opportunity (G3-1)</li> <li>6. Boundaries drawn utilizing notable landmarks (DC9)</li> <li>7. Potential use of volunteers to assist in management (DC7)</li> </ol>	<p><b>Invertebrates</b></p> <p>Black abalone, brown rock crab, Dungeness crab, limpets, little neck clams, market squid, moon snails, mussels, purple urchin, red abalone,</p>

California Marine Life Protection Act Initiative  
Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)  
Revised May 2, 2006

MPA Name	Regulations	Regional Goals/Objectives and Design Criteria	MPA-Specific Objectives	Species Likely to Benefit
				<p>red rock crab, red urchin, rock scallop, sand crab, sea hares, sea stars, turban snails, worms</p> <p><b>Algae</b> Giant kelp, other intertidal algae, rock weeds</p> <p><b>Plants</b> surfgrass</p> <p><b>Fish</b> Barred surfperch, bat ray, black RF, black SP, black-and-yellow RF, blue RF, bocaccio, brown RF, cabezon, calico RF, California halibut, chilipepper RF, china RF, copper RF, English sole, gopher RF, grass RF, kelp greenling, kelp RF, leopard shark, lingcod, monkeyface prickleback, olive rockfish, pile SP, quillback RF, rainbow SP,</p>

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

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				<p>rubberlip SP, sand sole, Pacific sanddab, shiner SP, slender sole, starry flounder, striped SP, surf smelt, topsmelt, treefish, vermillion RF, walleye SP, white SP, widow RF, wolf eel, yellowtail RF.</p> <p><b>Seabirds</b>  Brandt's Cormorant, Brown Pelican, Double-crested Cormorant, Pelagic Cormorant, Loons, Scoters</p> <p><b>Marine mammals</b>  California sea lion, harbor seal, Southern sea otter</p>
Hopkins State Marine Reserve	<p>Take of all living marine resources is prohibited.</p> <p>We intend this SMR to bump out only as far as necessary to include Hopkins deep reef. We will accept alternative boundary</p>	<p>Goal 2 –Obj. 2  Goal 3 – Obj. 1, 3  Goal 5 – Obj. 1  Design  Considerations: 1, 2, 3, 4, 5, 6, 7, 8, 9</p>	<p>Goal 2, Objective 2: Protect large individuals of resident nearshore fish species in known nursery area.</p> <p>Goal 3, Objective 1: Enhance scientific research opportunities at site of traditional high research value by expanding protection in adjacent areas, enlarging Hopkins SMR and extending Hopkins SMR into deeper waters. Area has long history of research and baseline data available.</p> <p>Goal 3, Objective 3: MPA sited adjacent to Stanford University's Hopkins Marine Station and used by students for educational and monitoring</p>	See above.

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

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	conventions to improve enforceability consistent with the goal of this MPA.		<p>purposes.</p> <p>Goal 5, Objective 1: Minimize socio-economic impacts by limiting SMR to 60 foot depth range, except for Hopkins Deep Reef with the tip at N36 37.435 W121 53.913 and running straight west and south to the 60' line, at N36 37.435 W121 54.145 and N36 37.252 W121 53.913. This will allow continued commercial and recreational consumptive use in waters deeper than 60 feet.</p>	
Pacific Grove State Marine Conservation Area	<p>In whole SMCA: Commercial take is prohibited except kelp harvesting allowed by hand harvest under harvest plan that allocates take to existing harvesters at rates approximately equal to existing take levels.</p> <p>No intertidal collection and no poke pole fishing allowed.</p> <p>No spear fishing contests allowed: Any competition involving two or more persons in which persons are ranked, or winners are determined, based on the size, weight, number of species, type of species, or number of fish taken by means of</p>	<p>Goal 3 – Obj. 1, 2, 3, 4</p> <p>Goal 5 – Obj. 1</p> <p>Design</p> <p>Considerations: 1, 3, 5, 6, 7, 9</p>	<p>Goal 3, Objective 1: Enhance non-consumptive recreational experience at area that includes traditional SCUBA dive sites accessed from the beach or via charter boat. Protect MPA in area close to Monterey/Pacific Grove population center that has long-standing and strong community support and high research, educational and recreational (tide pooling) value. This area is used by many local research institutions.</p> <p>Goal 3, Objective 2: Provide potential opportunity to study impacts of kelp harvesting by replicating Ed Ricketts and Hopkins SMRs in SMCA that allows kelp harvest. Potential opportunity to compare adjacent unfished (Ricketts and Hopkins SMRs and recreationally fished (Pacific Grove SMCA) areas. However, small size of each area may confound research results.</p> <p>Goal 3, Objective 3: Promote opportunity for use of volunteer divers in research and monitoring projects by siting MPA in area most heavily used by divers where REEF volunteer monitoring already takes place.</p> <p>Goal 3, Objective 4: Potentially enhance recreational consumptive experience in area of SMCA that allows recreational fishing by helping to encourage natural size and age structure of resident species due to adjacent SMRs and prohibition on commercial take.</p> <p>Goal 5, Objective 1: Allow continued recreational and kelp harvest access to traditional spear and shorefishing areas and persistent kelp bed in close vicinity to abalone farm. This SMCA would be similar to a SMP, except for commercial kelp extraction.</p>	<p>Since SMCA allows kelp harvesting and recreational take, only invertebrates species likely to benefit.</p>

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

MPA Name	Regulations	Regional Goals/Objectives and Design Criteria	MPA-Specific Objectives	Species Likely to Benefit
	<p>spearfishing.</p> <p>In area between line due east of Esplanade Street and line due west of Lover's Point: Recreational take of finfish by spear and by hook and line allowed.</p> <p>We intend this SMCA to follow the 60-foot depth line to include the kelp forest. We will accept alternative boundary conventions to improve enforceability consistent with the goal of this MPA.</p>			
Asilomar State Marine Reserve	<p>Take of all living marine resources is prohibited.</p> <p>We intend this SMR to follow the 60-foot depth line to include the kelp forest but not affect squid areas. We will accept alternative boundary conventions to improve enforceability consistent with the goal of the MPA.</p>	<p>Goal 1 – Obj. 1            Goal 2 – Obj. 2            Goal 3 – Obj. 1            Goal 5 – Obj. 1            Design            Considerations: 1, 3, 5, 6, 7, 9</p>	<p>Goal 1, Objective 1: Protect high diversity intertidal habitat and nearshore kelp forest and range of species characteristic of intertidal and nearshore regions of Monterey Peninsula.</p> <p>Goal 2, Objective 2: Protect larval source and enhance reproductive capacity of intertidal invertebrate species such as limpets, mussels, sea stars, turban snails and worms.</p> <p>Goal 3, Objective 1: Protect MPA in area close to Monterey/Pacific Grove population center that has long standing and strong community support and high educational and recreational (tide pooling) value. Area is accessible to many local research institutions.</p> <p>Goal 5, Objective 1: Minimize socio-economic impacts by limiting SMR to 60 foot depth range to allow continued consumptive use in waters deeper</p>	<p>May provide some benefit to:            Lingcod, black rockfish, black-and-yellow rockfish, blue rockfish, brown rockfish, copper rockfish, grass rockfish, gopher rockfish, olive rockfish, kelp greenling, kelp rockfish, monkeyface prickleback,</p>

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

MPA Name	Regulations	Regional Goals/Objectives and Design Criteria	MPA-Specific Objectives	Species Likely to Benefit
			than 60 feet while optimizing socio-economic benefits.	California halibut.  Limpets, little neck clams, moon snails, mussels, rock scallop, sea hares, sea stars, turban snails, worms.
Carmel Pinnacles State Marine Reserve	Take of all living marine resources is prohibited.  We intend this SMR to protect the Pinnacles, reefs off of Pescadero Point and the dive site east of Pescadero Point known at "the Cathedral". We will consider alternative boundary conventions that are consistent with the goals of the MPA. Proposed boundary drawn to use straight lines and to minimize impacts to squid grounds and spear fishing access point and fishing area in Stillwater Cove.	Goal 1 - 2 Goal 3 – Obj. 1, 2 Goal 4 – Obj. 1 Design Considerations: 1, 5, 6, 7, 8, 9	Goal 1, Objective 2: Protects communities associated with bull kelp and giant kelp forest habitats and hydrocoral colony.  Goal 3, Objective 1: Enhance non-consumptive recreational dive experience at traditional access site depleted by fishing. Note: California Department of Parks and Recreation has recommended this area as a Marine Reserve. This area is also frequently visited by dive boat operators out of Monterey.  Goal 3, Objective 2: Replicate for pinnacles in Point Lobos SMR.  Goal 4, Objective 1: Include pinnacles habitat in SMR.	Sponges and corals. May provide some benefit to: Lingcod, black rockfish, black-and-yellow rockfish, blue rockfish, brown rockfish, China rockfish, cabezon, canary, copper rockfish, grass rockfish, gopher rockfish, olive rockfish, kelp greenling, kelp rockfish, vermilion rockfish, and monkeyface prickleback.
Carmel Bay State Marine Conservation Area	Take of all living marine resources is prohibited except the recreational take of	Goal 2 - Obj. 3 Goal 3 - Obj. 1, 3 Goal 5 - Obj. 1 Design	Goal 2, Objective 3: Allow continued recreational and some commercial take in area of historic recreational use value near Monterey harbor while protecting mollusks and crustaceans.	Since recreational take allowed (except for mollusks and crustaceans),

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

MPA Name	Regulations	Regional Goals/Objectives and Design Criteria	MPA-Specific Objectives	Species Likely to Benefit
	<p>finfish by hook and line or spear and the commercial take of kelp by hand harvest.</p> <p>No spearfishing contests allowed: Any competition involving two or more persons in which persons are ranked or winners are determined based on the size, weight, number of species, type of species, or number of fish taken by means of spearfishing.</p>	Considerations: 1, 2, 5, 7, 8	<p>Goal 3, Objective 1: Maintain existing MPA located near population center of Monterey Peninsula that is accessible for recreational opportunities (consumptive and non-consumptive).</p> <p>Goal 3, Objective 3: Site MPA that includes long-term Moss Landing Marine Lab monitoring site in Stillwater Cove.</p> <p>Goal 5, Objective 1: Maintains existing MPA so will not result in any additional socio-economic impact.</p>	area likely to only benefit species not taken recreationally such as market squid and mollusks and crustaceans.
Point Lobos State Marine Reserve	<p>Take of all living marine resources is prohibited.</p> <p>Note: Current regulations at Point Lobos limiting diver access do not apply to new areas covered by this proposal.</p>	<p>Goal 1 – Obj. 1, 2, 3, 4, 5</p> <p>Goal 2 – Obj. 1, 2</p> <p>Goal 3 – Obj. 1, 2, 3, 4</p> <p>Goal 4 – Obj. 1, 2</p> <p>Goal 5 – Obj. 1, 3</p> <p>Design</p> <p>Considerations: 1, 4, 5, 6, 7, 8, 9</p>	<p>Goal 1, Objective 1: Protect area of high species diversity characteristic of the middle area of the Study Region and maintain species diversity and abundance as demonstrated by monitoring indicator species TBD by SAT. Area is within top 20<sup>th</sup> percentile for fish density and top 20<sup>th</sup> percentile for seabird density and diversity (over 200 species of seabirds identified).</p> <p>Goal 1, Objective 2: Protect rocky intertidal, kelp bed, Carmel River mouth estuary, rocky reef (0-30, 30-100), sandy bottom (0-30, 30-100), and submarine canyon (0-30 m).</p> <p>Goal 1, Objective 3: Protect natural age and size structure of invertebrate and fish species associated with mid-depth range and limited mobility.</p> <p>Goal 1, Objective 4: Protect natural trophic structure and food webs including forage species like squid and other coastal pelagic species that serve as prey for other fish, seabirds and marine mammals.</p>	<p>Lingcod, black rockfish, black-and-yellow rockfish, blue rockfish, brown rockfish, China rockfish, cabezon, copper rockfish, grass rockfish, gopher rockfish, olive rockfish, kelp greenling, kelp rockfish, vermilion rockfish, monkeyface prickleback. Market squid</p> <p>Limpets, little neck</p>

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

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			<p>Goal 1, Objective 5: Protect ecosystem structure and functions associated with canyon, rocky reef and kelp forest communities.</p> <p>Goal 2, Objective 1: Help protect listed seabird and marine mammal species by protecting forage base.</p> <p>Goal 2, Objective 2: Protect larval sources and enhance reproductive capacity of invertebrates and fish with limited movement patterns including indicator species TBD by SAT.</p> <p>Goal 3, Objective 1: Expand existing SMR with extensive educational and interpretive facilities including visitor center and docent program. Note: California Department of Parks and Recreation has recommended this area as a Marine Reserve.</p> <p>Goal 3, Objective 2: PISCO monitoring program has already established replicate inside/outside SMR monitoring sites for Point Lobos and baseline data exists. Replicates pinnacles habitat found in Carmel Pinnacles SMR.</p> <p>Goal 3, Objective 3: Existing high school program involves students in MPA monitoring at Point Lobos.</p> <p>Goal 3, Objective 4: Protect and enhance recreational experience by expanding protection of existing SMR to better ensure protection of large fish.</p> <p>Goal 4, Objective 1: Protect head of Carmel Submarine Canyon, pinnacles and small estuary in SMR. Note this is only MPA in Package 2 that protects Submarine Canyon at 0-30 m depth range.</p> <p>Goal 4, Objective 2: Include within SMR rocky intertidal, kelp bed, rocky reef (0-30, 30-100), sandy bottom (0-30, 30-100) habitat and submarine canyon (0-30m).</p> <p>Goal 5, Objective 1: Minimize socio-economic impacts by expanding</p>	<p>clams, moon snails, mussels, rock scallop, sea hares, sea stars, turban snails, worms.</p> <p>Southern sea otter, harbor seal.</p> <p>Brandt's cormorant, Brown pelican, Double-crested Cormorant, Pelagic Cormorant, Loons, Scoters.</p> <p>Giant kelp, other intertidal algae.</p>

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

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			<p>existing SMR rather than siting new one. Offshore boundary of SMR drawn specifically to avoid impacting spot prawn fishery. Optimize socio-economic benefits by improving protection in area that has particularly high non-consumptive use patterns including diving and wildlife watching.</p> <p>Goal 5, Objective 3: Site MPA that meets MPF Scientific Guidelines for minimum shoreline extent and offshore extent (SMCA buffer extends to 3 nm).</p>	
Point Lobos State Marine Conservation Area	<p>Take of all living marine resources prohibited except: Take of salmon and albacore and take of spot prawns by trap.</p> <p>Note: the northern boundary of the SMCA is designed to avoid impact to existing spot prawn fishermen in this area and to protect finfish species utilizing the canyon wall. We would accept alternative boundary conventions capable of meeting these goals.</p>	<p>Goal 1 – Obj. 2            Goal 2 – Obj. 1, 2, 3            Goal 3 – Obj. 2            Goal 5 – Obj. 1, 3            Design Considerations: 1, 4, 5, 6, 7, 8, 9</p>	<p>Goal 1, Objective 2: Protect area with soft and hard bottom habitats across a diversity of depth ranges (30-100m, 100-200m, &gt;200m, submarine canyon 30-100, 100-200m).</p> <p>Goal 2, Objective 1: Help protect populations of overfished rockfish (including bocaccio, canary and yelloweye) and help protect forage (including coastal pelagic species) for listed seabirds.</p> <p>Goal 2, Objective 2: Enhance reproductive capacity of benthic fish species by limiting fishing to deep water where it is less likely to result in bycatch of large, mature benthic organisms.</p> <p>Goal 2, Objective 3: Allow harvest of some species (salmon and spot prawn) while providing buffer for improved protection of Point Lobos SMR into deeper water.</p> <p>Goal 3, Objective 2: Provide (fished) replicate deepwater soft bottom, hard bottom and submarine canyon habitat for Portuguese Ledge and Big Creek SMR.</p> <p>Goal 5, Objective 1: Minimize socio-economic impacts by allowing fishing for salmon, albacore and spot prawns. Boundaries of SMCA and SMR drawn specifically to ensure no impact to spot prawn trap fishery. Most of site is within proposed EFH closure and non-trawl RCA furthering limiting socio-economic impacts.</p> <p>Goal 5, Objective 3: Buffer SMR with SMCA that extends to 3 nm from shore to meet MPF Guidelines for offshore extent.</p>	<p>Southern sea otter, harbor seal.</p> <p>Gorgonians, corals and sponges.</p> <p>Bocaccio, canary, yelloweye, cowcod, greenspotted, greenstriped, canary, widow, bank, chilipepper, flag, rosy, speckled, starry, yellowtail, and vermilion rockfish, lingcod.</p> <p>Brandt's cormorant, Brown pelican, Double-crested Cormorant, Pelagic Cormorant, Loons, Scoters.</p>

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

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Point Sur State Marine Reserve	Take of all living marine resources is prohibited.	Goal 1 – Obj. 1, 2, 3, 4, 5 Goal 2 – Obj. 1, 2 Goal 3 – Obj. 1, 3 Goal 4 – Obj. 1, 2 Goal 5 – Obj. 1, 3 Goal 6 Design Considerations: 1, 2, 3, 4, 5, 6, 7, 8, 9	<p>Goal 1, Objective 1: Protect area of particularly high species diversity associated with upwelling cell in lee of headland and maintain species diversity and abundance including appropriate indicator species TBD by SAT. Area is within top 20<sup>th</sup> percentile for fish density and diversity and for seabird diversity.</p> <p>Goal 1, Objective 2: Protect upwelling cell and area in lee of headland with unique oceanographic conditions, diverse and especially high quality habitats including most extensive rocky reef and largest and most persistent kelp forest in Central Coast. Other habitats include surfgrass beds, sandy beach, rocky intertidal, Big Sur River estuary, and soft and hard bottom habitat (0-30, 30-100) and submarine canyon (30-100m, 100-200 m).</p> <p>Goal 1, Objectives 3: Protect natural age and size of populations associated with this area including indicator species TBD by SAT. Goal 1, Objective 4: Protect natural trophic structure and food webs associated with the diverse communities found in this area including rocky reef species, species associated with sandy bottom areas, kelp forest species and submarine canyon communities including full range of forage and predation interactions from prey species such as juvenile rockfish, squid and Coastal Pelagic Species to top predators such as seabirds and marine mammals.</p> <p>Goal 1, Objective 5: Protect full range of ecosystem functions in area of high ecological value that is geographically and oceanographically well suited top provide larval dispersal that may help the rest of the Big Sur coast.</p> <p>Goal 2, Objective 1: Help protect healthy populations of overfished rockfish species including bocaccio, yelloweye and canary. Protect forage base for listed seabird and marine mammal species as well as listed fish species.</p> <p>Goal 2, Objective 2: Protect larval sources and enhance reproductive capacity of deepwater species including rockfish species. Kelp bed in lee</p>	<p>Lingcod, black rockfish, black-and-yellow rockfish, blue rockfish, brown rockfish, cabezon, China rockfish, copper rockfish, grass rockfish, gopher rockfish, olive rockfish, kelp greenling, kelp rockfish, vermilion rockfish, monkeyface prickleback, bocaccio, canary rockfish, yellowtail rockfish, yelloweye rockfish.</p> <p>Sole (Dover, English, petrale), sand dab.</p> <p>Market squid, Dungeness crab, sea stars, spot prawns, worms.</p> <p>Ashy Storm-Petrel, Brandt's cormorant, Cassin's auklet, Common murre, pelagic cormorant, pigeon Guillemot, western gull.</p>

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

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			<p>of point likely serves as larval retention area.</p> <p>Goal 3, Objective 1: Site MPA near State Park where existing PISCO subtidal monitoring site exists, providing baseline data. Note: California Department of Parks and Recreation recommended this area as a State Marine Park.</p> <p>Goal 3, Objective 2: Replicate deepwater habitats (sand, rock and deepwater canyon) found in the Soquel Hole SMCA and Point Lobos SMCA (fished) and the Portuguese Ledge SMR.</p> <p>Goal 4, Objective 1: Protect submarine canyon head and small estuary associated with Big Sur River in SMR.</p> <p>Goal 4, Objective 2: Protect in SMR, hard and soft bottom (0-30m, 30-100m), and submarine canyon habitat (30-100m, 100-200m).</p> <p>Goal 5, Objective 1: Approximately half of this proposed SMR already lies within the Recreational and non-trawl RCA. Compared to other areas closer to port, this area is lightly fished by the nearshore fishery, the CPFV fleet (only in the winter and only a few days a month). Sited to reduce impacts to squid fleet by leaving important squid grounds around Hurricane Point and Castle Rock open to fishing. Site optimizes socio-economic benefits due to location adjacent to popular state park at site with exceptional natural heritage values.</p> <p>Goal 5, Objective 3: Meet MPF Science Guidelines for size (around 5 miles of shoreline extent, thus below the recommended 6-12 range) and offshore extent.</p> <p>Goal 6: This site is designed to contribute to an effective network.</p> <p>This site is designed to fulfill the criteria for MPAs contained in the NFMP.</p>	Giant kelp and other algal species.
Julia Pfeiffer Burns State Marine	Take of all living marine resources is prohibited.	Goal 1 – Obj. 1, 2, 3, 4, 5 Goal 2 – Obj. 1, 2	Goal 1, Objective 1: Protect area of high species diversity associated with deepwater and submarine canyon habitats. Area is within top 20 <sup>th</sup> percentile for fish diversity.	Lingcod, black rockfish, black-and-yellow rockfish,

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

MPA Name	Regulations	Regional Goals/Objectives and Design Criteria	MPA-Specific Objectives	Species Likely to Benefit
Reserve		<p>Goal 3 – Obj. 1, 2, 3</p> <p>Goal 4 – Obj. 1, 2</p> <p>Goal 5 – Obj. 1, 3</p> <p>Design</p> <p>Considerations: 1, 2, 3, 4, 5, 6, 8, 9</p>	<p>Goal 1, Objective 2: Protect sandy beach, rocky intertidal, soft and hard bottom habitat (0-30, 30-100, 100-200, &gt;200) and submarine canyon (30-100m, 100-200 m, &gt;200m).</p> <p>Goal 1, Objectives 3: Protect natural age and size of populations associated with this area including indicator species TBD by SAT.</p> <p>Goal 1, Objective 4: Protect natural trophic structure and food webs associated with the diverse communities found in this area including rocky reef species, species associated with deep sandy bottom areas, and deepwater submarine canyon communities including full range of forage and predation interactions from prey species such as juvenile rockfish, squid and Coastal Pelagic Species to top predators such as seabirds and marine mammals.</p> <p>Goal 1, Objective 5: Protect full range of ecosystem functions in area in between upwelling zones.</p> <p>Goal 2, Objective 1: Help maintain healthy populations of overfished rockfish species including bocaccio, yelloweye and canary. Protect forage base for listed seabird and marine mammal species as well as listed fish species.</p> <p>Goal 2, Objective 2: Protect larval sources and enhance reproductive capacity of deepwater species including rockfish species.</p> <p>Goal 3, Objective 1: Expand and improve protection level for existing MPA (underwater park) adjacent to State Park on land.</p> <p>Goal 3, Objective 2: Replicate deepwater canyon head in SMR (Point Sur SMR), and outside of SMR (finger canyons in Big Creek SMCA)</p> <p>Goal 3, Objective 3: Include existing underwater park that is popular dive site. Possibility for use of volunteer divers in data collection.</p> <p>Goal 4, Objective 1: Protect submarine canyon heads in SMR.</p>	<p>blue rockfish, brown rockfish, cabezon, China rockfish, copper rockfish, grass rockfish, gopher rockfish, olive rockfish, kelp greenling, kelp rockfish, vermilion rockfish, monkeyface prickleback, bocaccio, canary rockfish, yellowtail rockfish, yelloweye rockfish.</p> <p>Sole (Dover, English, petrale), sand dab.</p> <p>Market squid, Dungeness crab, sea stars, spot prawns, worms. Gorgonians, corals and sponges.</p> <p>Brandt's cormorant, Common murre, Scoters, fulmars.</p> <p>Giant kelp and other algal species.</p> <p>Grey whale, harbor</p>

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

MPA Name	Regulations	Regional Goals/Objectives and Design Criteria	MPA-Specific Objectives	Species Likely to Benefit
			<p>Goal 4, Objective 2: Replicate in SMR (as required by MLPA Section 2857(c)(3), deepwater habitat found in Portuguese Ledge SMR (30-100m, 100-200 m, and &gt;200m) and submarine canyon habitat found in Point Sur SMR (30-100m, 100-200m) and submarine canyon habitat found in Portuguese Ledge SMR (&gt;200m). Note: MLPA calls for replication of representative habitats across a range of depths. All replication of submarine canyon habitats (at all depth ranges) must occur in the Central Coast Study Area since virtually no canyon habitat occurs within state waters to the north of Pigeon Point.</p> <p>Goal 5, Objective 1: SMR sited to deliberately to maintain fishing access to Several Big Sur Coast sites identified as particularly important to CPFV fleet and nearshore rockfish fishery (such as “Fuller’s”, “the Slide”, Lopez Point, Cape San Martin, and Salmon Creek).</p> <p>Goal 5, Objective 3: Meet MPF Science Guidelines for size (approximately 5 miles of shoreline extent) and offshore extent – extends to 3 nm offshore.</p> <p>Goal 6: This site is designed to contribute to an effective network.</p> <p>This site is designed to fulfill the criteria for MPAs contained in the NFMP.</p>	porpoise and southern sea otters.
Big Creek State Marine Conservation Area	Take of all living marine resources is prohibited except: spot prawn by trap and take of salmon and albacore.	Goal 2 – Obj. 3 Goal 3 – Obj. 2 Goal 5 – Obj. 1 Design Considerations: 1, 2, 3, 5, 6, 9,	<p>Goal 2, Objective 3: Protect suite of species associated with habitats off the Big Sur Coast (indicators TBD by SAT) while allowing trapping for spot prawns and commercial and recreational fishing for salmon and albacore in waters offshore. Provide additional buffer (by extending alongshore extent of protection for most species) to Julia Pfeiffer Burns SMR.</p> <p>Goal 3, Objective 2: Provide SMCA that allows spot prawn trapping, salmon and albacore fishing only adjacent to modest SMR to provide opportunity to assess impacts of such fishing.</p> <p>Goal 5, Objective 1: Minimize socio-economic impacts by allowing some pelagic fishing to occur in otherwise protected area and allowing spot</p>	<p>Bocaccio, canary, yelloweye, cowcod, greenspotted, greenstriped, canary, widow, bank, chilipepper, flag, rosy, speckled, starry, yellowtail, and vermilion rockfish, lingcod.</p> <p>Sole (Dover, English, petrale),</p>

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

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			prawn trapping in area especially important to prawn trappers.	sand dab.  Worms, gorgonians, corals and sponges.  Brandt's cormorant, Common murre, Scoters, fulmars.  Grey whale.
Big Creek State Marine Reserve	Take of all living marine resources is prohibited.  Note: Current regulations applying to diver access at Big Creek do not apply to new areas covered by this proposal.	Goal 1 – Obj. 1, 2, 3, 4, 5 Goal 2 – Obj. 1, 2 Goal 3 – Obj. 1, 3 Goal 4 – Obj. 1, 2 Goal 5 – Obj. 1 Goal 6  Design Considerations: 1, 2, 3, 4, 5, 6, 8, 9	Goal 1, Objective 1: Protect area of high species diversity associated with Big Sur Coast. Area is within top 20 <sup>th</sup> percentile for fish diversity.  Goal 1, Objective 2: Protect sandy beach, rocky intertidal, surfgrass bed, Big Creek River mouth, soft and hard bottom habitat (0-30, 30-100).  Goal 1, Objectives 3: Protect natural age and size of populations associated with this area including indicator species TBD by SAT.  Goal 1, Objective 4: Protect natural trophic structure and food webs associated with the diverse communities found in this area including rocky reef species, species associated with deep sandy bottom areas, including full range of forage and predation interactions from prey species such as juvenile rockfish, squid and Coastal Pelagic Species to top predators such as seabirds and marine mammals.  Goal 1, Objective 5: Protect full range of ecosystem functions in area in between upwelling zones.  Goal 2, Objective 1: Help maintain healthy populations of overfished rockfish species including bocaccio, yelloweye and canary. Protect forage base for listed seabird and marine mammal species as well as listed fish species.	Lingcod, black rockfish, black-and-yellow rockfish, blue rockfish, brown rockfish, cabezon, China rockfish, copper rockfish, grass rockfish, gopher rockfish, olive rockfish, kelp greenling, kelp rockfish, vermilion rockfish, monkeyface prickleback, bocaccio, canary rockfish, yellowtail rockfish, yelloweye rockfish.  Sole (Dover, English, petrale), sand dab.

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

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			<p>Goal 2, Objective 2: Protect larval sources and enhance reproductive capacity of deepwater species including rockfish species.</p> <p>Goal 3, Objective 1: Expand existing SMR adjacent to terrestrial reserve run by the University of California which provides research and educational opportunities and existing baseline data (inside and outside of SMR).</p> <p>Goal 3, Objective 3: Adjacent terrestrial reserve managed by University provides good opportunities for linking to classroom curriculum and area has been traditional site for collaborative research projects involving commercial fishermen. Baseline data exists for site.</p> <p>Goal 4, Objective 2: Replicate in SMR (as required by MLPA Section 2857(c)(3), habitat found in Portuguese Ledge SMR hard and soft bottom (30-100m) Note: MLPA calls for replication of representative habitats across a range of depths. All replication of submarine canyon habitats (at all depth ranges) must occur in the Central Coast Study Area since virtually no canyon habitat occurs within state waters to the north of Pigeon Point.</p> <p>Goal 5, Objective 1: SMR sited to deliberately to maintain fishing access to Several Big Sur Coast sites identified as particularly important to CPFV fleet and nearshore rockfish fishery (such as "Fuller's", "the Slide", Lopez Point, Cape San Martin, and Salmon Creek). Sited to avoid squid grounds south of Lopez Point.</p>	<p>Market squid, Dungeness crab, sea stars, spot prawns, worms. Gorgonians, corals and sponges.</p> <p>Brandt's cormorant, Common murre, Scoters, fulmars.</p> <p>Giant kelp and other algal species.</p> <p>Grey whale, harbor porpoise and southern sea otters.</p>
Piedras Blancas State Marine Reserve	Take of all living marine resources is prohibited.	<p>Goal 1 – Obj. 1, 2, 3, 4, 5</p> <p>Goal 2 – Obj. 1, 2</p> <p>Goal 3 – Obj. 1, 2, 3</p> <p>Goal 4 – Obj. 1, 2</p> <p>Goal 5 – Obj. 1, 3</p> <p>Goal 6</p> <p>Design</p>	<p>Goal 1, Objective 1: Protect area of particularly high species diversity including fish, invertebrates, birds (over 250 species), marine mammals (including major rookeries with California sea lion, Elephant seals, harbor seals, Steller's sea lions, northern fur seals) and uniquely diverse algal community (bull kelp and giant kelp).</p> <p>Goal 1, Objective 2: Protect diverse habitats including: sandy beach with diverse cobble size, rocky intertidal, surfgrass bed, kelp forest, pinnacles, hard and soft bottom habitat (0-30m, 30-100 m). No data is available for hard bottom but there is a rocky reef located off Piedras Blancas.</p>	<p>Lingcod, black rockfish, black-and-yellow rockfish, blue rockfish, brown rockfish, cabezon, copper rockfish, grass rockfish, gopher rockfish, olive rockfish, kelp greenling, kelp</p>

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

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		Considerations: 1, 2, 3, 4, 6, 7, 8, 9	<p>Goal 1, Objective 3: Protect natural age and size structure of nearshore and offshore species including indicator species TBD by SAT.</p> <p>Goal 1, Objective 4: Protect natural trophic structure and food webs associated with the diverse communities found in this area including full range of forage and predation interactions from prey species such as juvenile rockfish, squid and Coastal Pelagic Species to top predators such as seabirds and marine mammals.</p> <p>Goal 1, Objective 5: Protect forage for seabirds and marine mammals and protect them from disturbance associated with fishing activities.</p> <p>Goal 2; Objective 1: Help protect bird and marine mammal species of concern by protecting forage base and reducing disturbance associated with fishing activities.</p> <p>Goal 2, Objective 2: Protect larval sources and enhance reproductive capacity of nearshore and midwater fish and invertebrate species.</p> <p>Goal 3, Objective 1: Site MPA adjacent to newly expanded State Park with high visitor rates, interpretive facilities, docent presence, parking, etc.</p> <p>Goal 3, Objective 2: Replicates range of habitats found at Point Sur SMR and Point Buchon SMR. Existing PISCO monitoring site.</p> <p>Goal 3, Objective 3: Site is well suited to research and monitoring programs with classroom component. Friends of the Elephant Seal program may already have classroom materials developed.</p> <p>Goal 4, Objective 1: Include pinnacles in SMR.</p> <p>Goal 4, Objective 2: Protect and replicate sandy beach, rocky intertidal, surfgrass bed, kelp forest, pinnacles, hard and soft bottom habitat (0-30m, 30-100 m).</p>	<p>rockfish, vermillion rockfish, monkeyface prickleback, Scorpionfish, Dover sole, rex sole, sand dab.</p> <p>Pigeon guillemots, western gulls, Brandt's cormorant, pelagic cormorant, rhinoceros auklets, scoters, brown pelicans, shearwaters, fulmars, red-necked Phalaropes.</p> <p>Limpets, mussels, sea stars, turban snails, worms</p> <p>Southern sea otters, Gray whale, Steller's sea lions, harbor seals, harbor porpoise.</p> <p>Bull kelp, Giant kelp, other intertidal algal species, surfgrass, sea palm, rock weeds.</p>

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

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			<p>Goal 5, Objective 1: Although Piedras Blancas is an area used by the CPFV and nearshore rockfish fleets, available data shows it receives far less fishing effort than other areas closer to port that remain open to fishing under this proposal. Also, Cambria SMP will enhance recreational fishing opportunities in nearby area. This SMR optimizes socio-economic benefits by protecting an area with exceptionally high natural heritage values (educational value, visitors, tourism, etc) due scenic value, and presence of easily viewable marine wildlife and seabirds.</p> <p>Goal 5, Objective 3: Meet MPF Guidelines regarding size (7 miles in shoreline extent) and offshore extent (3 nm).</p> <p>Goal 6: This site is designed to contribute to an effective network.</p> <p>This site is designed to fulfill the criteria for MPAs contained in the NFMP.</p>	
Cambria State Marine Park	No commercial take.	<p>Goal 2 – Obj. 3</p> <p>Goal 3 – Obj. 1, 2, 4</p> <p>Goal 5 – Obj. 1</p> <p>Design Considerations: 1, 2, 3, 5, 6, 7, 8, 9</p>	<p>Goal 2, Objective 3: May protect species that are not targeted by recreational fishing effort while allowing recreational harvest of all species.</p> <p>Goal 3, Objective 1: Enhance recreational fishing (including spear fishing, skiff fishing, CPFV fishing) at site traditionally accessed primarily by recreational users that has been depleted by nearshore live fish fishery.</p> <p>Goal 3, Objective 2: Replicate habitats found in adjacent proposed Ken Norris SMR to allow comparison of open, recreationally fished only and unfished sites. Note existing subtidal and intertidal monitoring sites already exist in this immediate area making it especially well suited to this objective.</p> <p>Goal 3, Objective 4: Enhance recreational experience by reducing pressure on species targeted by commercial fishing which may help ensure natural age and size structure for these species and result in improved consumptive recreational experience.</p> <p>Goal 5, Objective 1: Minimize socioeconomic impacts by siting MPA in location distant from port and optimize benefits by enhancing historic</p>	<p>Since recreational take is allowed, species less likely to benefit from SMP. Species that are not targeted by recreational fishing (such as market squid, benthic invertebrates and Giant kelp) will benefit.</p>

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

MPA Name	Regulations	Regional Goals/Objectives and Design Criteria	MPA-Specific Objectives	Species Likely to Benefit
			recreational fishing areas as SMP.	
Ken Norris State Marine Reserve	<p>Take of all living marine resources is prohibited.</p> <p>Note: Site is proposed as SMR however an existing kelp bed lease may require a phasing in of this level of protection after lease has expired and can be redrawn. We propose this MPA be established as an SMCA allowing only kelp harvesting under the existing lease in any interim period.</p>	<p>Goal 1 – Obj. 2, 3, 4, 5</p> <p>Goal 2 – Obj. 1, 2, 3</p> <p>Goal 3 – Obj. 1, 2, 3</p> <p>Goal 4 – Obj. 1, 2</p> <p>Goal 5 – Obj. 1, 3</p> <p>Design Considerations: 1, 3, 4, 5, 6, 7, 8, 9</p>	<p>Goal 1, Objective 2: Protect diverse habitats including: sandy beach, rocky intertidal, offshore islets, surfgrass, kelp forest, pinnacles, hard and soft bottom habitat (0-30m, 30-100 m). No data is available for hard bottom but presence of kelp indicates reef.</p> <p>Goal 1, Objective 3: Protect natural age and size structure of nearshore and offshore species including indicator species TBD by SAT.</p> <p>Goal 1, Objective 4: Protect natural trophic structure and food webs associated with representative habitats and communities found in this area including full range of forage and predation interactions from prey species such as juvenile rockfish, squid and Coastal Pelagic Species to top predators such as seabirds and marine mammals.</p> <p>Goal 1, Objective 5: Protect forage for seabirds and marine mammals and protect them from disturbance associated with fishing activities.</p> <p>Goal 2; Objective 1: Help protect bird and marine mammal species of concern by protecting forage base and reducing disturbance associated with fishing activities.</p> <p>Goal 2, Objective 2: Protect larval sources and enhance reproductive capacity of nearshore and midwater fish and invertebrate species.</p> <p>Goal 3, Objective 1: Enhance research and study opportunities at site that is frequently used by researchers, college students and classes to study/monitor both intertidal and subtidal communities. Accessible via public stairway at Lampton Park.</p> <p>Goal 3, Objective 2: Replicate habitats found in adjacent proposed Cambria SMP to allow comparison of open, recreationally fished only and unfished sites. Note existing subtidal and intertidal monitoring sites already exist in this immediate area making it especially well suited to this objective. Also, will allow comparison of relatively small SMR (3.5 miles in shoreline extent). Existing PISCO Subtidal monitoring site and baseline data exists for this site and for fished "outside" replicate at</p>	<p>Lingcod, black rockfish, black-and-yellow rockfish, blue rockfish, brown rockfish, cabezon, copper rockfish, grass rockfish, gopher rockfish, olive rockfish, kelp greenling, kelp rockfish, vermilion rockfish, monkeyface prickleback, Dover sole, English sole, leopard shark, petrale sole, sand dab, starry flounder, wolf eel. Surfperch, rubber lipped perch, pile surfperch, shiner surfperch, and walleye surfperch. Starry flounder, surf smelt, top smelt, white croaker.</p> <p>Southern sea otter, harbor porpoise, Steller's sea lion, harbor seals.</p> <p>Brandt's cormorant, brown pelican,</p>

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

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			<p>Cayucos.</p> <p>Goal 3, Objective 3: Site is frequently used by students for monitoring and research purposes.</p> <p>Goal 4, Objective 2: Protect and replicate sandy beach, rocky intertidal, surfgrass, and shallow to mid-depth soft and hard bottom habitat.</p> <p>Goal 5, Objective 1: Available data shows that this area receives far less fishing effort than other areas closer to port that remain open to fishing under this proposal. Also, Cambria SMP will enhance recreational fishing opportunities in immediately adjacent area. This SMR optimizes socio-economic benefits promoting educational and research opportunities at site with ongoing monitoring and existing baseline studies. Since section of kelp bed within proposed SMR is least convenient for harvester to access and very rarely used, phasing out kelp cutting in this area is not expected to result in adverse socio-economic impacts.</p> <p>Goal 5, Objective 3: Meet minimum MPF Guidelines regarding size (SMR is approximately 3.5 miles in shoreline extent).</p>	<p>pelagic cormorant, pigeon guillemot, scoters.</p> <p>Giant kelp, bull kelp, sea palm, other intertidal algae and surfgrass.</p> <p>Limpets, mussels, sea stars, turban snails, worms</p>
Estero Bluff State Marine Reserve	<p>Take of all living marine resources is prohibited.</p> <p>We intend this site to prohibit shore collection and shore fishing but not to impact skiff fishing and are open to suggestions on how to improve enforceability of boundaries.</p>	<p>Goal 1 – Obj. 1            Goal 3 – Obj. 1            Goal 4 – Obj. 2            Goal 5 – Obj. 1            Design Considerations: 1, 3, 4, 5, 6, 9</p>	<p>Goal 1, Objective 1: Protect intertidal benthic species characteristic of area south of Big Sur coast.</p> <p>Goal 3, Objective 1: Enhance community education and recreational tide-pooling experience by protecting accessible intertidal area adjacent to State Park.</p> <p>Goal 4, Objective 2: Protect and replicate intertidal habitat in SMR.</p> <p>Goal 5, Objective 1: Minimize socio-economic impacts by siting MPA that has virtually no impact on consumptive activities (more convenient areas in immediate vicinity remain open to shore fishing)</p>	<p>As intertidal SMR that extends to only 3 feet, only likely to benefit invertebrates.</p> <p>Limpets, mussels, sea stars, turban snails, worm.</p>
Morro Bay State Marine Conservation	Recreational fishing allowed. No commercial take	<p>Goal 2 – Obj. 3            Goal 5 – Obj. 1</p>	Goal 2, Objective 3: Allow continued use patterns including recreational fishing and mariculture while preventing new impacts.	SMCA unlikely to benefit species since continued

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

MPA Name	Regulations	Regional Goals/Objectives and Design Criteria	MPA-Specific Objectives	Species Likely to Benefit
Area	except: commercial oyster farming and bait receiving allowed.		Goal 5, Objective 1: No socio-economic impacts expected since proposed MPA reflect existing use patterns.	recreational take allowed.
Morro Bay East State Marine Reserve	Take of all living marine resources is prohibited.	Goal 1 – Obj. 1, 2, 3, 4 Goal 2 – Obj. 1, 2 Goal 3 – Obj. 1, 2, 3 Goal 4 – Obj. 1 Goal 5 – Obj. 1 Design Considerations: 1, 3, 5, 6, 7, 8, 9	Goal 1, Objective 1: Protect estuarine area with high bird diversity.  Goal 1, Objective 2: Protect area with diversity of estuarine habitats – open channel, mud flats, and eelgrass beds.  Goal 1, Objective 3: Protect natural age, size structure, and genetic diversity of fish and invertebrate species characteristic of large estuarine system – especially elasmobranchs (nursery) and flatfish.  Goal 1, Objective 4: Protect natural structure and food web of estuarine system including forage base (invertebrates) for seabirds, etc.  Goal 2, Objective 1: Help protect listed seabirds and southern sea otters by protecting feeding area.  Goal 2, Objective 2: Enhance reproductive capacity of both invertebrate and fish species by prohibiting take in important nursery area.  Goal 3, Objective 1: Site SMR in area adjacent to museum, State Parks, Morro Bay Estuarine Reserve providing educational and interpretive resources.  Goal 3, Objective 2: Protect and replicate representative estuarine habitat in Central Coast Study Area within SMR.  Goal 4, Objective 1: Protect estuary in SMR.  Goal 5, Objective 1: Site SMR in area that has recently received little fishing effort, and where non-consumptive values likely to be enhanced by the SMR (wildlife watching) are particularly high.	Worms.  Kelp greenling, kelp rockfish, longnose skate, monkeyface prickleback, pile surfperch, rainbow surfperch, rubber lip perch, sand sole, shiner surf perch, starry flounder, striped surf perch, top smelt, surf smelt, white croaker, white surfperch, wolf eel.  Eelgrass, other intertidal algae.  Brandt's cormorant, brown pelican, common murre, double-crested cormorant, least tern, Rhinoceros auklet, pelagic cormorant, pigeon guillemot, grebe, scoters.  Southern sea

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

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				otters.
Morro Bay State Marine Recreational Management Area	No take except for hunting of waterfowl.	See above.	See above.	See above.
Point Buchon State Marine Reserve	Take of all living marine resources is prohibited.	Goal 1 – Obj. 1, 2, 3, 4, 5 Goal 2 – Obj. 1, 2 Goal 3 – Obj. 1, 2 Goal 4 – Obj. 1, 2 Goal 5 – Obj. 1, 3 Goal 6 Design Considerations: 1, 2, 3, 4, 6, 8	Goal 1, Objective 1: Protect area with high fish and invertebrate species diversity and abundance as well as seabirds and marine mammals.  Goal 1, Objective 2: Protect sandy beach, rocky intertidal, and hard and soft bottom habitat in 0-30 m and 30-100 m depth range. Goal 1, Objective 3: Protect natural age and size structure of NFMP species including indicator species TBD by SAT.  Goal 1, Objectives 4: Protect trophic structure and food web in area representative of soft bottom and hard bottom shallow water habitats south of Morro Bay.  Goal 1, Objective 5: Protect full range of ecosystem functions in area in between upwelling zones.  Goal 2, Objective 1: Help protect bird and marine mammal species of concern by protecting forage base.  Goal 2, Objective 2: Protect larval sources and enhance reproductive capacity of nearshore and midwater fish and invertebrate species.  Goal 3, Objective 1: Site MPA to include CRANE Subtidal monitoring site (fish and invertebrate) with extensive baseline data set collected for power plant monitoring. Site is located 1.2 miles down coast of Point Buchon and 2 miles up coast from Lion Rock.  Goal 3, Objective 2: SMR replicate for fished area to the south of the Diablo Security Closure.	Corals and sponges, market squid, moon snails, sea hares, sea stars, worms.  Lingcod, black rockfish, black-and-yellow rockfish, blue rockfish, brown rockfish, cabezon, copper rockfish, grass rockfish, gopher rockfish, olive rockfish, kelp greenling, kelp rockfish, vermilion rockfish, monkeyface prickleback, Scorpionfish, California halibut, California skate, sand dab.  Brown pelicans, scoters, grebe, shearwaters, and fulmars.

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

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			<p>Goal 4, Objective 1: Protect pinnacles in SMR.</p> <p>Goal 4, Objective 2: Protect and replicate sandy beach, rocky intertidal, pinnacles, kelp, and hard and soft bottom habitat in 0-30 m and 30-100 m depth range in SMR.</p> <p>Goal 5, Objective 1: Minimize socio-economic impacts by siting SMR on north side of Diablo Security Closure and allowing fishing for salmon in SMCA offshore. Available data shows fishing effort is higher on south side of closure. Available data (Regional Profile maps 9 &amp; 10) suggest that the area between Point Estero and Point Buchon historically received the vast majority of recreational fishing effort. This large area is most accessible to/from Morro Bay is left outside of MPA protection.</p> <p>Goal 5, Objective 3: Site SMR that meets minimum MPF Science Guidelines regarding shoreline extent (7 miles).</p> <p>Goal 6: This site is designed to contribute to an effective network In combination with Point Buchon SMCA).</p> <p>In combination with the Point Buchon SMCA, this site is designed to fulfill the criteria for MPAs contained in the NFMP.</p>	<p>Southern sea otter, harbor porpoise, short-beaked common dolphin.</p>
Point Buchon State Marine Conservation Area	No take of living marine resources except fishing for salmon and albacore allowed.	<p>Goal 2- Obj. 2  Goal 2 – Obj. 3  Goal 3 – Obj.2  Goal 4 – Obj. 2  Goal 5 – Obj. 1  Goal 6  Design  Considerations: 1, 3, 4, 5, 6, 8, 9</p>	<p>Goal 2, Objective 2: Protect larval sources and enhance reproductive capacity of midwater fish and invertebrate species.</p> <p>Goal 2, Objective 3: Buffer Point Buchon SMR to provide additional protection for benthic species and typical forage species (squid and coastal pelagics) while allowing fishing for salmon and albacore.</p> <p>Goal 3, Objective 2: SMR replicate for fished area to the south of the Diablo Security Closure.</p> <p>Goal 4, Objective 2: Protect and replicate hard and soft bottom habitat in 30-100 m depth range in SMR.</p> <p>Goal 5, Objective 1: Minimize socio-economic impacts by siting SMR on</p>	<p>Corals and sponges, market squid, moon snails, sea hares, sea stars, worms.</p> <p>Lingcod, black rockfish, black-and-yellow rockfish, blue rockfish, brown, rockfish, cabezon, copper rockfish, grass rockfish, gopher</p>

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

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			<p>north side of Diablo Security Closure and allowing fishing for salmon in SMCA offshore. Available data shows fishing effort is higher on south side of closure.</p> <p>Goal 5, Objective 3: In combination with the adjacent SMR, this SMCA meets minimum MPF Science Guidelines regarding shoreline extent (6 miles) and offshore extent (3 nm).</p> <p>Goal 6: The Point Buchon SMR and SMCA are designed to work together to contribute to an effective network.</p> <p>In combination with the Point Buchon SMR, this site is designed to fulfill the criteria for MPAs contained in the NFMP.</p>	<p>rockfish, olive rockfish, kelp greenling, kelp rockfish, vermilion rockfish, monkeyface prickleback, Scorpionfish. California halibut, California skate, sand dab.</p> <p>Brown pelicans, scoters, grebe, shearwaters, and fulmars.</p> <p>Harbor porpoise.</p>
Purisima Point State Marine Reserve	Take of all living marine resources is prohibited.	<p>Goal 1 – Obj. 1, 2, 3, 4, 5</p> <p>Goal 2 – Obj. 1, 2</p> <p>Goal 3 – Obj. 1, 2</p> <p>Goal 4 – Obj. 1, 2</p> <p>Goal 5 – Obj. 1, 3</p> <p>Goal 6</p> <p>Design Considerations: 1, 3, 4, 5, 6, 8, 9</p>	<p>Goal 1, Objective 1: Protect area with high seabird, marine mammal, fish and invertebrate species diversity and abundance.</p> <p>Goal 1, Objective 2: Protect high quality habitat associated with dunes, coastal cliffs, kelp forest, estuary, soft bottom, rocky reef and headland (0-30, 30-100 m depth) in southern end of Study Region.</p> <p>Goal 1: Objective 3: Protect natural age and size structure of NFMP species including indicator species TBD by SAT.</p> <p>Goal 1, Objectives 4: Protect trophic structure and food web in area representative of habitats south of Morro Bay.</p> <p>Goal 1, Objective 5: Protect ecosystem structure and functions in representative habitat in southern end of Central Coast study area.</p> <p>Goal 2, Objective 1: Help protect bird and marine mammal species of concern by protecting forage base adjacent to colonies and rookeries.</p>	<p>Dungeness crab, rock crab, market squid</p> <p>Cabazon, kelp greenling, lingcod, Lingcod, black rockfish, black-and-yellow rockfish, blue rockfish, brown rockfish, cabazon, copper rockfish, grass copper rockfish, grass rockfish, gopher rockfish, olive rockfish, kelp greenling, kelp</p>

*California Marine Life Protection Act Initiative*  
*Summary Matrix of MPAs, Goals and Objectives, and Species Likely to Benefit in Package 2R (March 15, 2006 version)*  
*Revised May 2, 2006*

MPA Name	Regulations	Regional Goals/Objectives and Design Criteria	MPA-Specific Objectives	Species Likely to Benefit
			<p>Goal 2, Objective 2: Protect larval sources and enhance reproductive capacity of nearshore and midwater fish and invertebrate species.</p> <p>Goal 3, Objective 1: Site MPA to include PISCO Subtidal monitoring site, MARINe site and PRBO seabird study area.</p> <p>Goal 3, Objective 2: SMR replicate for fished area at Point Sal.</p> <p>Goal 4, Objective 1: SMR protects import estuary at the mouth of the Santa Ynez River.</p> <p>Goal 4, Objective 2: Protect and replicate sandy beach, rocky intertidal, and hard and soft bottom habitat in 0-30 m and 30-100 m depth range in SMR.</p> <p>Goal 5, Objective 1: Minimize socio-economic impacts by siting SMR far from port to allow closer areas to remain open to fishing. Keep Point Sal and the majority of rocky reef north of Purisima Point open to provide rocky reef open to fishing in nearby vicinity. Available data indicates important squid fishing areas near Point Sal are avoided by siting MPA at Purisima instead.</p> <p>Goal 5, Objective 3: Site SMR that meets minimum MPF Science Guidelines regarding shoreline extent (6 miles) and offshore extent (3 nm).</p> <p>Goal 6: This site is designed to contribute to an effective network.</p> <p>This site is designed to fulfill the criteria for MPAs contained in the NFMP.</p>	<p>rockfish, starry rockfish, sand sole, barred surfperch.</p> <p>Brown pelican, least tern, pigeon guillemot, Brandt's cormorant, western gull, pacific loon, and sooty shearwater.</p> <p>Harbor seal, southern sea otter.</p>
Point Arguello State Marine Reserve	Take of all living marine resources is prohibited.	<p>Goal 1 – Obj. 1, 2, 3, 4</p> <p>Goal 2 – Obj. 1, 2</p> <p>Goal 3 – Obj. 2</p> <p>Goal 5 – Obj. 1, 3</p> <p>Goal 6</p>	<p>Goal 1, Objective 1: Protect area with high seabird, marine mammal, fish and invertebrate species diversity and abundance.</p> <p>Goal 1, Objective 2: Protect area with unique oceanographic conditions in transition zone including sandy beach, rocky intertidal, soft and hard bottom habitat (0-30 m, 30-100m).</p>	<p>Dungeness crab, rock crab, market squid</p> <p>Cabazon, kelp greenling, lingcod,</p>

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MPA Name	Regulations	Regional Goals/Objectives and Design Criteria	MPA-Specific Objectives	Species Likely to Benefit
		1, 3, 4, 6, 9	<p>Goal 1, Objective 3: Protect natural age and size structure of NFMP species including indicator species TBD by SAT.</p> <p>Goal 1, Objectives 4: Protect trophic structure and food web in area representative of habitats south of Morro Bay.</p> <p>Goal 2, Objective 1: Help protect 19 NFMP species, listed seabirds and southern sea otters.</p> <p>Goal 2, Objective 2: Protect larval sources and enhance reproductive capacity of nearshore and midwater fish and invertebrate species. Lee of Point Arguello is likely larval retention area.</p> <p>Goal 3, Objective 2: Provides replicate for Purisima Point SMR.</p> <p>Goal 5, Objective 1: Site selected to reduce impacts to squid fishery (as compared to locating MPA at Point Conception).</p> <p>Goal 5, Objective 3: MPA designed to meet MPF Guidelines for minimum size.</p> <p>Goal 6: This site is designed to contribute to an effective network.</p>	<p>Lingcod, black rockfish, black-and-yellow rockfish, blue rockfish, brown rockfish, cabezon, copper rockfish, grass copper rockfish, grass rockfish, gopher rockfish, olive rockfish, kelp greenling, kelp rockfish, starry rockfish, sand sole, barred surfperch.</p> <p>Brown pelican, least tern, pigeon guillemot, Brandt's cormorant, western gull, pacific loon, sooty shearwater</p> <p>Harbor seal, southern sea otter.</p>